



**JSPM's
Jayawantrao Sawant Polytechnic**

Sr. No. 58, Indrayani Nagar, Handewadi Road,

Hadapsar, Pune-411028

Phone No: 020(26970320/26970886/887/888)

Website: jspmispoly.edu.in. Email ID: principal@jspmispoly.edu.in



“TECHNO-SPARK”

By

‘CIVIL ENGINEERING DEPARTMENT’

Newsletter Date: 18th May 2022 (Vol. VII)

Chief Editor: Prof. T.D.Sayyad (H.O.D. Civil Department)

Editor: Prof. N. R. More (Lecturer)

Student Editor: Mr. Sangram Kalje

FOUNDER SECRETARY'S MESSAGE

JSPM's Jayawantrao Sawant Polytechnic was established in 2006 with the objective of creating centre of excellence for education in the field of Engineering. The main objective behind starting the institute was to make technical education available to all who are desirous of achieving it. I also visualized that a social transformation can be brought through the medium of dynamic education, Jayawantrao Sawant Polytechnic is, thus, an institution of technical education with social commitment. With India and Indians, emerging as leaders across various professional sectors, it becomes an even greater challenge for the education sector to nurture and groom such abundant talent, which is all set to take industry's quest for excellence to dazzling new heights. We have created a learning culture, a friendly environment that facilitates complete development of our students. Our three pronged focus on knowledge, skill and attitude is aimed at meeting the needs of our customers, i.e., the industry. To achieve this we have handpicked the best faculty from diverse fields and expertise. We have invested in state of the art facilities, infrastructure and skilled



**Prof. Dr. T. J. Sawant
Founder Secretary**

human resources to supplement the culture and environment of the institute's good governance. Moreover, it is our pledge to change in tandem with the changing requirements of the industry and mould, develop and nurture talent that will make the nation proud.

Prof. Dr. T. J. Sawant, Founder Secretary, JSPM



**JSPM's
Jayawantrao Sawant Polytechnic**

Sr. No. 58, Indrayani Nagar, Handewadi Road,
Hadapsar, Pune-411028

Phone No: 020(26970320/26970886/887/888)

Website: jspmjspoly.edu.in. Email ID: principal@jspmjspoly.edu.in



Principal Message



Dr. S. M. Deokar
Principal

It is observed that, the students those who are taking admission in the college are especially from rural areas. It is our duty to provide them skills and knowledge to empower and enhance them to meet their goals and achieve grant success in their career.

So, we have already started such efforts in this direction. I confidently welcome the student and promise them that their future shall be bright, if they are ready to take challenges to become successful professionals, giant leaders, entrepreneurs.

Our team is ready to enhance their qualities which are required to be the best Indian professionals and also encourage them to face rigors in the corporate sector. I always motivate the students by saying, "Try to climb high, wings are waiting for you". Jayawantrao Sawant Polytechnic provides a student-centred learning environment with close student-faculty interaction and constant participation of the industry. The emphasis is purposive curriculum, tailored to the needs of the industry and practical training to enable the young graduate easily cope up with the Challenges as they get into industries through periodic seminars, symposia, workshops, industrial visits and internship as an integral part of the courses, So, gear up for the hard work and I am sure you will enjoy your learning years.

With a lots of Best Wishes...!

DR. S. M. DEOKAR
Principal



**JSPM's
Jayawantrao Sawant Polytechnic**

Sr. No. 58, Indrayani Nagar, Handewadi Road,
Hadapsar, Pune-411028

Phone No: 020(26970320/26970886/887/888)

Website: jspmispoly.edu.in. Email ID: principal@jspmispoly.edu.in



HOD's Desk



**Prof. T.D.Sayyad
HOD**

Department offers Diploma in Civil Engineering with 180 intake capacity. Along with fully equipped Workshop facilities, the department has well equipped Laboratories. The department consists of highly qualified, well experienced and dedicated faculties. Department regularly arranges Expert Lectures and Industrial visits along with workshop and seminars for the development of the students in various field. The department encourages and supports students in extra and co-curricular activities like sports and cultural programmes. We are also focused for the campus placements for our students.

**Prof. T.D.Sayyad
(H.O.D. Civil Department)**



**JSPM's
Jayawantrao Sawant Polytechnic**

Sr. No. 58, Indrayani Nagar, Handewadi Road,

Hadapsar, Pune-411028

Phone No: 020(26970320/26970886/887/888)

Website: jspmispoly.edu.in. Email ID: principal@jspmispoly.edu.in



VISION STATEMENT

“To establish learning environment to reinforce civil engineer who shall maintain professional integrity to serve society with knowledge and skill acquired”.

MISSION STATEMENT

M1.To impart sound theoretical and practical knowledge in the discipline of Civil Engineering, through effective teaching and learning process.

M2.To produce industry and society oriented skillful engineers through co-curricular activities.

M3. To inculcate the moral values amongst student through extra-curricular activities.

CONTENTS

1. Achievements

- i. Placement Details
- ii. Toppers In MSBTE Exam Winter-2021

2. Department- Curriculum

- i. Departmental Laboratories

3. Co – Curriculum Activities

- i. Industrial Visits
- ii. Expert / Guest Lectures

4. Extra – Curriculum Activities

- i. Rangoli and Poster Making Competition
- ii. Shivjayanti Celebration

5. Students Articles

- i. Seismic Retrofitting Techniques – Strengthening Structures, Securing Lives
- ii. Smart Cities Development – Shaping the Future of Urban Living

6. Upcoming Events



JSPM's
Jayawantrao Sawant Polytechnic

Sr. No. 58, Indrayani Nagar, Handewadi Road,
Hadapsar, Pune-411028

Phone No: 020(26970320/26970886/887/888)

Website: jspmispoly.edu.in. Email ID: principal@jspmispoly.edu.in



1.Achievements

i. Toppers In MSBTE Exam

- The principal and the Head of the Departments congratulated all the Toppers of the MSBTE's Winter-2021 examination in the Department. The Class wise toppers are as under:

➤ **FIRST YEAR TOPPERS:**

Sr. No.	Student Name	Class	Percentage
01	Vedpathak Harshad K.	FYCE	86.29%
02	Ambekar Ujwal S.	FYCE	84.71%
03	Gaikwad Dhairyashil V.	FYCE	83.86%

➤ **SECOND YEAR TOPPERS:**

Sr. No.	Student Name	Class	Percentage
01	Patil Atharv	SYCE	85.00%
02	Dikonda Sandesh	SYCE	83.56%
03	Tonape Payal	SYCE	83.33%

➤ **THIRD YEAR TOPPERS:**

Sr. No.	Student Name	Class	Percentage
01	Ingole Prathmesh R.	TYCE	93.30%
02	Bagal Rutuja R.	TYCE	88.30%
03	Kande Sakshi S.	TYCE	87.30%

2.Department- Curriculum

i. Departmental Laboratories

1. Environmental Laboratory:-

Environmental lab is utilized by the diploma students for Public Health Engineering as in third year. Lab has total cost of 1,68,857/-. Major equipment in this Laboratory are BOD Incubator, COD apparatus, Spectrophotometer, digital DO meter, Flocculator ect.



JSPM's Jayawantrao Sawant Polytechnic

Sr. No. 58, Indrayani Nagar, Handewadi Road,
Hadapsar, Pune-411028

Phone No: 020(26970320/26970886/887/888)

Website: jspmispoly.edu.in. Email ID: principal@jspmispoly.edu.in



2. Surveying Laboratory:-

This laboratory since its inception to the Civil Department carries instruments right from Dumpy Level to advanced Total Station to cater the need of syllabus for diploma students from Second and First year engineering. The laboratory is equipped with instruments like Optical One Second Theodolite and Electronic Total station to be at par with the need of global education system. Total cost of the lab is 6,54,825/-.



3. Strength Of Material Laboratory:-

Strength of Material lab is equipped with some major instruments like Universal Testing Machine having capacity 10000 tonne and Compression Testing Machine having 1000 tonne. This lab setup adequately caters to the academic requirements of Diploma students. The setup can also be utilized for consultancy work regarding testing of different material such as Steel, Concrete, etc. Total cost of lab is 1149870/-





JSPM's
Jayawantrao Sawant Polytechnic

Sr. No. 58, Indrayani Nagar, Handewadi Road,
Hadapsar, Pune-411028

Phone No: 020(26970320/26970886/887/888)

Website: jspmispoly.edu.in. Email ID: principal@jspmispoly.edu.in



4. Concrete Technology Laboratory:-

Experiments of Advances concrete technology for Concrete Technology (TY Civil) are performed. Utilized for Research Project of diploma Students. Spacious well equipped laboratory with provision of safety equipment like fire extinguisher, first aid box etc. Consultancy of Testing material i.e. Cement, Aggregate, Steel, bricks, concrete cubes and Concrete mix design are done. Total cost of lab is 1,42,286/-



5. Engineering Mechanics Laboratory

This lab is utilized by first year diploma students for the subject engineering mechanics. The total cost of this lab is 56460/-, major instruments in lab are Worm and worm wheel, screw jack, differential pulley block etc.





JSPM's
Jayawantrao Sawant Polytechnic

Sr. No. 58, Indrayani Nagar, Handewadi Road,
Hadapsar, Pune-411028

Phone No: 020(26970320/26970886/887/888)

Website: jspmispoly.edu.in. Email ID: principal@jspmispoly.edu.in



3.Co – Curriculum Activities

i. Industrial Visits

- A visit to B.A.I.F. Plant was organized on 23rd of April 2022 by the industrial visit coordinator and respective subject teacher. Around the site Students got information about different types of waste management and its components like, how to dispose waste, with actual examples, vermin composting, Bio-Gas, etc.



- A visit to construction site was organized on 09th of April 2022 by the industrial visit coordinator and respective subject teacher. At the site, students got information about different types of construction materials, how they are used, precautions while using and storage of materials, different components of building, reinforcement and casting of different components like Beam, Column, Footing, Construction of walls, type of brick bonds, curing processes, storage of construction materials etc.





JSPM's
Jayawantrao Sawant Polytechnic

Sr. No. 58, Indrayani Nagar, Handewadi Road,
Hadapsar, Pune-411028

Phone No: 020(26970320/26970886/887/888)

Website: jspmispoly.edu.in. Email ID: principal@jspmispoly.edu.in



- A visit to bridge site was organized on 23rd of April 2022 by the industrial visit coordinator and respective subject teacher. Around the site students got information about different types of bridge and its components, how span length is calculated, different reasons for failure of bridge with actual examples, reinforcement and casting of different components like, Column, Footing, Construction of parapet wall of bridge, etc.



- A visit to construction site was organized on 23rd of April 2022 by the industrial visit coordinator and respective subject teacher. Around the site students got information about different types of construction materials, how they are used, precautions while using and storage of materials, different components of building, reinforcement and casting of different components like Beam, Column, Footing, Construction of walls, type of brick bonds, curing processes, storage of construction materials etc.





**JSPM's
Jayawantrao Sawant Polytechnic**

Sr. No. 58, Indrayani Nagar, Handewadi Road,
Hadapsar, Pune-411028

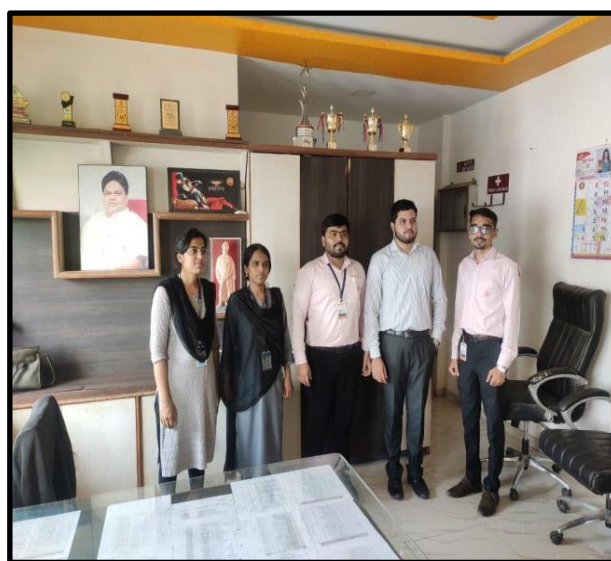
Phone No: 020(26970320/26970886/887/888)

Website: jspmispoly.edu.in. Email ID: principal@jspmispoly.edu.in



ii. Expert / Guest Lectures

- Department of Civil Engineering conducted a seminar on '**Numerical evaluation of soil profile**' for Second Year students on 25/04/2022 from 10:30 am to 11:30am. Mr. Aditya Desai was the resource person. He has done remarkable work in the field of soil testing under NABL and currently working as an Asst. Professor in PVPIT, Bavdhan.



- Department of Civil Engineering conducted a seminar on '**construction techniques and introduction to software**' for third Year students on 29/04/2022 from 9:30 am to 10:30am. Ms. Shraddha Bendsure was the resource person. She has done remarkable work in the field of construction management and currently working as an Asst. Professor in PVPIT, Bavdhan.





**JSPM's
Jayawantrao Sawant Polytechnic**

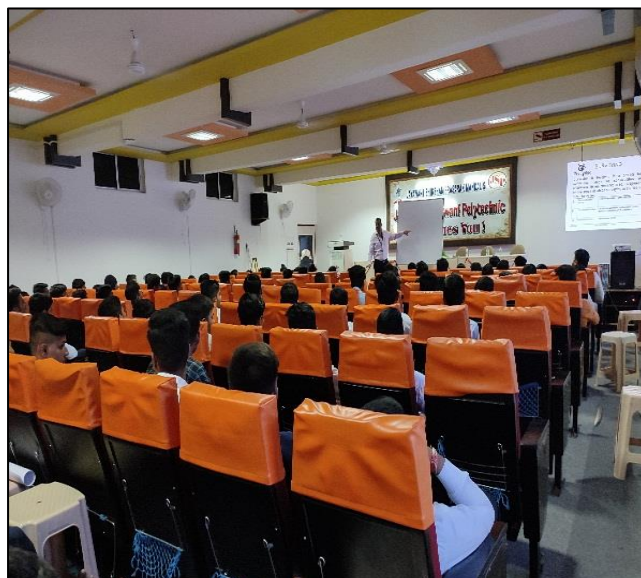
Sr. No. 58, Indrayani Nagar, Handewadi Road,
Hadapsar, Pune-411028

Phone No: 020(26970320/26970886/887/888)

Website: jspmispoly.edu.in. Email ID: principal@jspmispoly.edu.in



- Department of Civil Engineering conducted a seminar on '**levelling in basic survey**' for First and Second Year students on 29/04/2022 from 9:00 am to 10:00 a.m. Mr. Uday Phatak was the resource person. He has done remarkable work in the field of survey and currently working as an Asst. Professor in PVPIT, Bavdhan.



- Department of Civil Engineering conducted a seminar on '**Demonstration on software's in civil engineering -Auto cad & Revit**' for Second and Third Year students On 12/03/2022 from 1:20 pm to 03:20 pm. Mr. Alok Sasane was the resource person. He has done remarkable work in the field of design and have hands on expertise on various software utilized in civil engineering design





**JSPM's
Jayawantrao Sawant Polytechnic**

Sr. No. 58, Indrayani Nagar, Handewadi Road,
Hadapsar, Pune-411028

Phone No: 020(26970320/26970886/887/888)

Website: jspmispoly.edu.in. Email ID: principal@jspmispoly.edu.in



4.Extra – Curriculum Activities

i. Rangoli and Poster Making Competition

- Department of Civil Engineering conducted a programme on **“Rangoli and Poster Making Competition”** for first, second and third year students on 15/04/2022 from 1.20 pm to 3.20 pm.



ii. Shivjayanti Celebration

- Department of Civil Engineering conducted a programme on “Shivjayanti” for First, Second and Third year student on 21/03/2022 from 10.20 am to 11.20 am.





JSPM's
Jayawantrao Sawant Polytechnic

Sr. No. 58, Indrayani Nagar, Handewadi Road,

Hadapsar, Pune-411028

Phone No: 020(26970320/26970886/887/888)

Website: jspmispoly.edu.in. Email ID: principal@jspmispoly.edu.in



5.Students Articles

i. Seismic Retrofitting Techniques – Strengthening Structures, Securing Lives

Earthquakes are natural disasters that strike without warning, often causing massive destruction to buildings and infrastructure. As future civil engineers, it is our responsibility not only to build strong structures but also to **upgrade and protect existing ones**. This is where **Seismic Retrofitting Techniques** come into play. Seismic retrofitting means **modifying and strengthening existing buildings or structures** to make them more resistant to earthquake forces. In a country like India, where many areas fall under high seismic zones, retrofitting is not just important—it's a **necessity** for public safety and disaster preparedness.

Ingole Prathmesh R.
(TYCE)

ii. Smart Cities Development – Shaping the Future of Urban Living

The world is moving fast toward urbanization, and with it comes the challenge of managing cities more efficiently. In response, the concept of Smart Cities has emerged—a revolutionary approach to urban development that uses technology, sustainability, and innovation to improve the quality of life for citizens. As Civil Engineering diploma students, understanding smart city development is both relevant and inspiring for our future careers.

Smart Cities are more than just a trend—they are the future of urban development. As future civil engineers, we must embrace the knowledge, skills, and mindset needed to build cities that are not only smart but also resilient, inclusive, and sustainable.

Tonape Payal
(SYCE)

6.Upcoming Events

- In the month of December the MSBTE's Winter-2022 examination will start.
- New Academic year 2022-2023 will be start.